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Country	Customer Care Centre ☎	Web Site
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BN68-01448A-00



Plasma TV

user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service, please
register your product at

www.samsung.com/global/register

Model _____ Serial No. _____



User Instructions

◆ Screen Image retention

Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

◆ Height

The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height so do not install and operate there.

◆ Heat on the top of the PDP TV

The top side of the product may be hot after long period of use as heat dissipates from the panel through the vent hole in the upper part of the product. This is normal and does not indicate any defect or operation failure of the product. However, children should be prevented from touching the upper part of the product.

◆ The product is making a 'cracking' noise.

A 'cracking' noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

◆ Cell Defects

The PDP uses a panel consisting of 1,230,000(SD-level) to 3,150,000(HD-level) pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

◆ Avoid operating the TV at temperatures below 5°C(41°F)

◆ A still image displayed too long may cause permanent damage to the PDP Panel.



Watching the PDP TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.

◆ Afterimage on the Screen.

Displaying still images from Video games and PC for longer than a certain period of time may produce partial afterimages. To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images.

◆ Warranty

- Warranty does not cover any damage caused by image retention.
- Burn-in is not covered by the warranty.

◆ Installation

Be sure to contact an authorized service centre, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substance and where it operates continually such as the airport, the train station etc. Failure to do so may cause a serious damage to your set.

Contents

General Information

◆ User Instructions	2
◆ Checking Parts	4
◆ Using the Stand-Base	4
◆ Control Panel	5
◆ Connection Panel	6
◆ Viewing the Remote Control	8

Operation

◆ Switching Your Television On and Off	9
◆ Viewing the Menus	9
◆ Plug & Play Feature	10
◆ Using the TOOLS Button	11
◆ Viewing External Signal Sources	12
◆ Editing Device Names	13

Channel Control

◆ Storing Channels Automatically	13
◆ Storing Channels Manually	14
◆ Adding / Locking Channels	15
◆ Sorting the Stored Channels	16
◆ Assigning Names to Channels	16
◆ Fine Tuning Channel Reception	17

Picture Control

◆ Changing the Picture Standard	17
◆ Customizing the Picture Settings	18
◆ Configuring Detailed Settings on the Picture	18
◆ Picture Options	20
◆ Resetting the Picture Settings to the Factory Defaults	23

Sound Control

◆ Sound Features	23
◆ Selecting the Sound Mode (depending on the model)	25
◆ Connecting Headphones (Sold separately)	25

Function Description

◆ Time Features	26
◆ Language / Light Effect / Melody / Entertainment / Energy Saving	27
◆ Viewing the Picture in Picture (PIP)	28

PC Display

◆ Setting up Your PC Software (Based on Windows XP)	29
◆ Input Mode (PC)	30
◆ Setting the PC	31

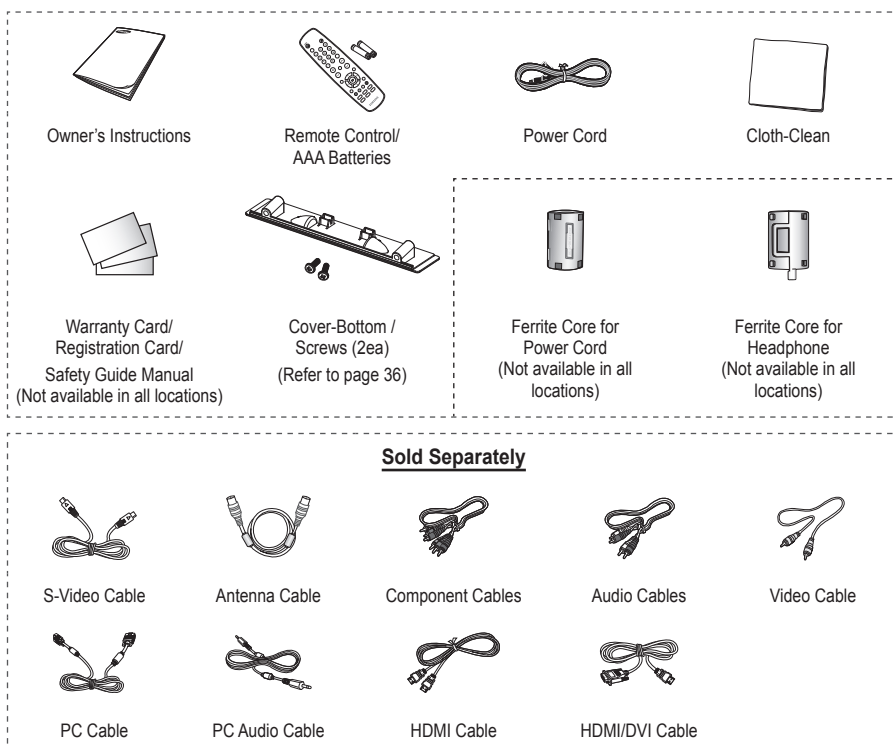
Appendix

◆ Teletext Feature (depending on the model) ..	32
◆ Wall Mount Kit Specifications (VESA)	34
◆ Wall- mount adjustment (Sold separately)	35
◆ How to assemble the Stand-Base (depending on the model)	36
◆ Troubleshooting	37
◆ Specifications	38

Symbols

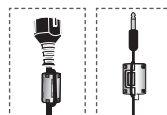


Checking Parts



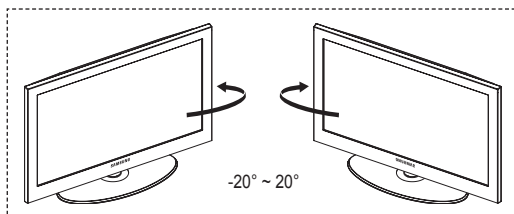
➤ Ferrite Core (Power Cord, Headphone)

The ferrite cores are used to shield the cables from interference. When connecting a cable, open the ferrite core and clip it around the cable near the plug.



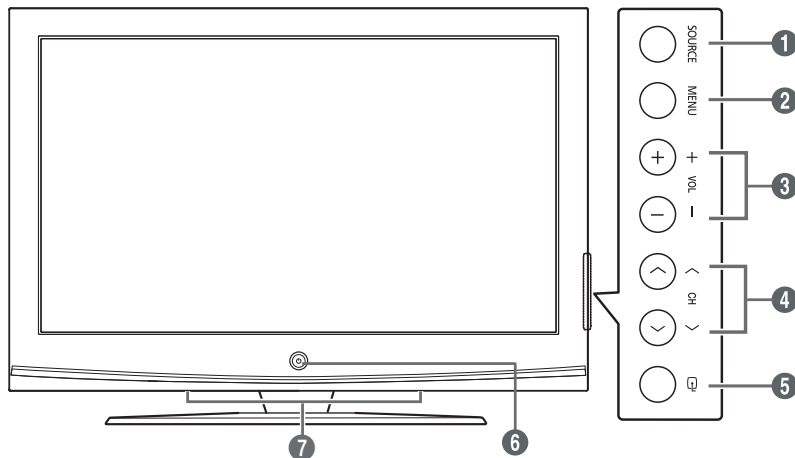
Using the Stand-Base

- ◆ Two or more people should carry the PDP. Never lay the PDP on the floor because of possible damage to the screen. Always keep the PDP upright.
- ◆ The PDP can rotate 20 degrees in right and left directions.



Control Panel

Front Panel



➤ The product colour and shape may vary depending on the model.

1 SOURCE

Toggles between all the available input sources (**TV, AV1, AV2, S-Video, Component1, Component2, PC, HDMI1, HDMI2**).

2 MENU

Press to see an on-screen menu of your TV's features.

3 + VOL -

Press to increase or decrease the volume. In the on-screen menu, use the **+ VOL** buttons as you would use the **◀** and **▶** buttons on the remote control.

4 ^ CH >

Press to change channels. In the on-screen menu, use the **^ CH >** buttons as you would use the **▲** and **▼** buttons on the remote control.

5 In the on-screen menu, use this button as you would use the **ENTER** button on the remote control.

6 POWER

Press to turn the TV on and off.

Power Indicator

Blinks and turns off when the power is on and lights up in stand-by mode.

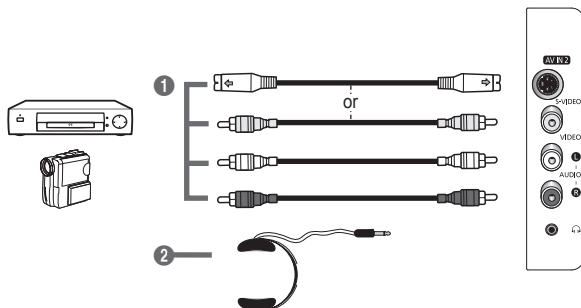
Remote Control Sensor

Aim the remote control towards this spot on the TV.

7 Speakers

Connection Panel

Side Panel



➤ The product colour and shape may vary depending on the model.

- ◆ Whenever you connect an audio or video system to your set, ensure that all elements are switched off.
- ◆ When connecting an external device, match the colour of the connection terminal to the cable.

1 AV IN 2(S-VIDEO or VIDEO / AUDIO R/L)

Video (S-Video or Video) and Audio inputs for external devices, such as a camcorder or VCR.

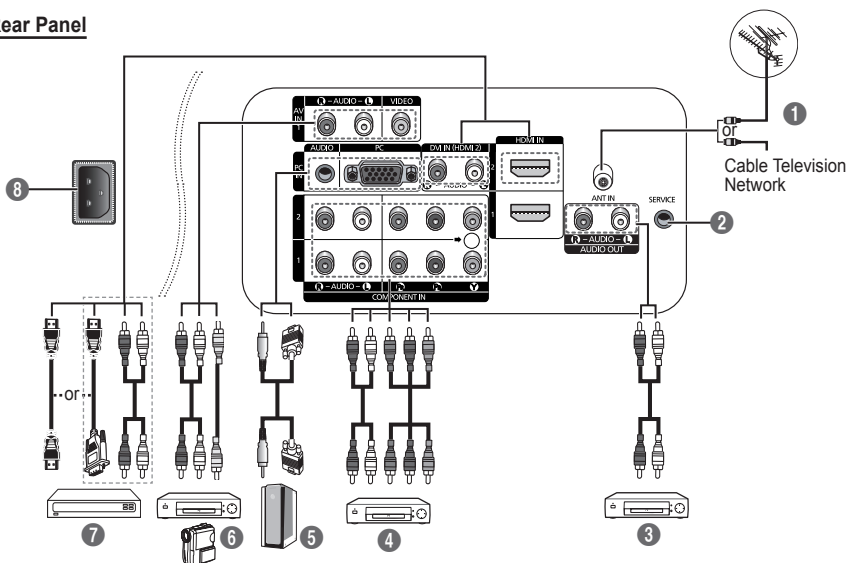
2 Headphones jack

You can connect a set of headphones if you wish to watch a television programme without disturbing the other people in the room.

➤ Prolonged use of headphones at a high volume may damage your hearing.

Continued...

Rear Panel



➤ The product colour and shape may vary depending on the model.

- ◆ Whenever you connect an audio or video system to your set, ensure that all elements are switched off.
- ◆ When connecting an external device, match the colour of the connection terminal to the cable.

1 ANT IN

75Ω Coaxial connector for Aerial/Cable Network.

2 SERVICE

- Connector for service.
- Connect the serial jack between the electro-motion wall mount bracket and your TV when you want to adjust the TV viewing angle using your remote control.

3 Connecting external Audio Devices

Connect RCA audio signals from the TV to an external source, such as Audio equipment.

4 COMPONENT IN 1, COMPONENT IN 2

Audio (AUDIO L/R) and video (Y/Pb/P_R) inputs for Component.

5 PC IN(PC) / AUDIO

Connect to the video and audio output jack on your PC.

6 AV IN 1(VIDEO / AUDIO R/L)

Connect RCA cable to an appropriate external A/V device such as VCR, DVD or Camcorder.

7 HDMI IN 1, 2

- No additional Audio connection is needed for an HDMI to HDMI connection.
- When using an HDMI/DVI cable connection, you must use the HDMI IN 2 jack.

➤ What is HDMI?

- "High Definition Multimedia interface" allows the transmission of high definition digital video data and multiple channels of digital audio.
- The HDMI/DVI terminal supports DVI connection to an extended device with the appropriate cable (not supplied). The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi - channel digital audio.

DVI IN (HDMI2) AUDIO R/L

DVI audio outputs for external devices.

8 POWER IN

Connect the supplied power cord.

Supported modes for HDMI/DVI and Component

	480i	480p	576i	576p	720p	1080i
HDMI/DVI 50Hz	X	X	X	O	O	O
HDMI/DVI 60Hz	X	O	X	X	O	O
Component	O	O	O	O	O	O

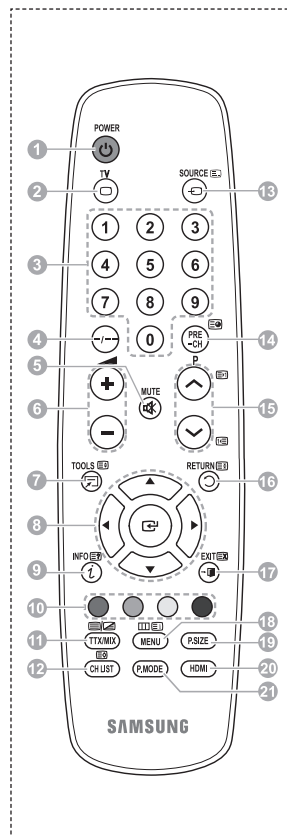
Viewing the Remote Control

- 1 POWER button
(turns the TV on and off)
- 2 Selects the TV mode directly
- 3 Number buttons for direct channel access
- 4 One/Two-digit channel selection
- 5 Temporary sound switch-off
- 6 + Volume increase
- Volume decrease
- 7 Use to quickly select frequently used functions.
- 8 Control the cursor in the menu
- 9 Use to see information on the current broadcast
- 12 Channel control button
(Refer to page 15)
- 13 Available source selection
- 14 Previous channel
- 15 Next channel
Previous channel
- 16 Returns to the previous menu
- 17 Exit the on-screen menu
- 18 Displays the main on-screen menu
- 19 Picture size selection
- 20 Selects the HDMI mode directly
- 21 Picture effect selection
(Refer to page 17)

Teletext Functions

(Refer to page 32)

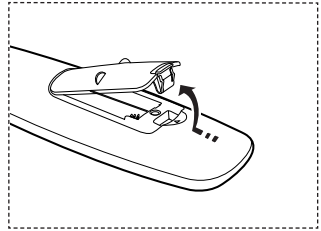
- 2 Exit from the teletext display
(depending on the model)
- 7 Teletext size
- 9 Teletext reveal
- 10 Fastext topic selection
- 11 Teletext display/mix both teletext information and the normal broadcast
- 12 Teletext store
- 13 Teletext mode selection
(LIST/FLOF)
- 14 Teletext sub page
- 15 P :Teletext next page
P :Teletext previous page
- 16 Teletext hold
- 17 Teletext cancel
- 18 Teletext index



Continued...

Installing Batteries in the Remote Control

- 1 Lift the cover at the back of the remote control upward as shown in the figure.
- 2 Install two AAA size batteries.
 - ♦ Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.
 - ♦ Do not mix battery types, i.e. alkaline and manganese.
- 3 Close the cover as shown in the figure.
 - Remove the batteries and store them in a cool and dry place if you won't be using the remote control for a long time. The remote control can be used up to about 23 feet from the TV.
- If the remote control doesn't work! Check the following:
 1. Is the TV power on?
 2. Are the plus and minus ends of the batteries reversed?
 3. Are the batteries drained?
 4. Is there a power cut, or is the power cord unplugged?
 5. Is there a special fluorescent light or a neon sign nearby?



Switching Your Television On and Off

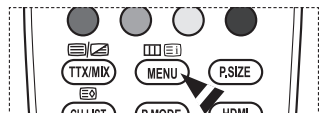
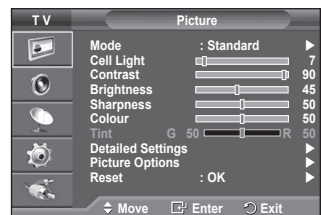
The mains lead is attached to the rear of the television.

- 1 Plug the mains lead into an appropriate socket.
 - The main voltage is indicated on the rear of the television and the frequency is 50 or 60Hz.
- 2 Press the  (Power) button (On/Off) on the front of the television or press the **POWER** button on the remote control to switch the television on. The channel that you were watching last is re-selected automatically. If you have not yet stored any channels, no clear picture appears. Refer to "Storing Channels Automatically" on page 13 or "Storing Channels Manually" on page 14.
 - If the television is initially powered on, several basic customer settings proceed automatically. Refer to "Plug & Play Feature" on pages 10~11.
- 3 To switch the television off, press the  (Power) button (On/Off) on the front of the television or press the **POWER** button on the remote control.
- 4 To switch the TV on, press the  (Power) button (On/Off) on the front of the TV or press the **POWER** button or number buttons on the remote control.

Viewing the Menus

- 1 Press the **MENU** button.

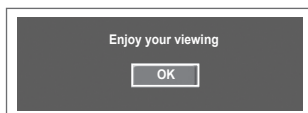
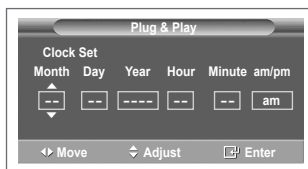
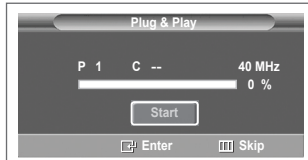
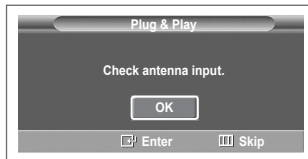
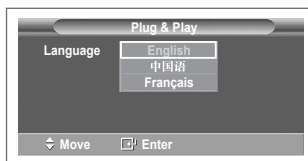
The main menu is displayed on the screen. Its left side has five icons: **Picture**, **Sound**, **Channel**, **Setup**, and **Input**.
- 2 Press the **▲** or **▼** button to select one of the icons. Press the **ENTER** button to access the icon's sub-menu.
- 3 Press the **▲** or **▼** button to move to items in the menu. Press the **ENTER** button to enter items in the menu.
- 4 Press the **▲/▼/◀/▶** button to change the selected items. Press the **RETURN** button to return to the previous menu.
- 5 Press the **EXIT** button to exit from the menu.



Plug & Play Feature

When the television is initially powered on, several basic customer settings proceed automatically and subsequently. The following settings are available.

- 1 If the television is in standby mode, press the **POWER** button on the remote control. The message **Start Plug & Play.** is displayed. Press the **ENTER** button. **Language** menu is displayed.
- 2 Select the appropriate language by pressing the **▲** or **▼** button. Press the **ENTER** button. The message **Select 'Home Use' when installing this TV in your home.** is displayed.
- 3 Press the **◀** or **▶** button to select **Store Demo** or **Home Use**, then press the **ENTER** button. The message to check the connected status of the antenna is displayed.
 - ♦ The default selection is **Home Use**.
 - ♦ We recommend setting the TV to **Home Use** mode for the best picture in your home environment.
 - ♦ **Store Demo** mode is only intended for use in retail environments.
 - ♦ If the unit is accidentally set to **Store Demo** mode and you want to return to **Home Use** (Standard): Press the Volume button. When the volume OSD is displayed, press and hold the **MENU** button for 5 seconds.
- 4 Make sure that the antenna is connected to the TV. Press the **ENTER** button. **Area** menu is displayed.
- 5 Select your country or area by pressing the **▲** or **▼** button, then press the **ENTER** button. **Auto Store** menu is displayed.
- 6 Press the **ENTER** button to start search the channels. The channel search will start and end automatically. After all the available channels are stored, **Clock Set** menu is automatically displayed. Press the **ENTER** button.
 - To stop the search before it has finished, press the **ENTER** button with **Stop** selected.
- 7 Press the **◀** or **▶** button to select **Month**, **Day**, **Year**, **Hour**, **Minute** or **am/pm**. Set these by pressing the **▲** or **▼** button.
 - You can set the **Month**, **Day**, **Year**, **Hour**, and **Minute** directly by pressing the numeric buttons on the remote control.
- 8 Press the **ENTER** button to confirm your setting. The message **Enjoy your viewing** is displayed. When you have finished, press the **ENTER** button.
 - Even if the **ENTER** button is not pressed, the message will automatically disappear after several seconds.



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If you want to reset this feature ...

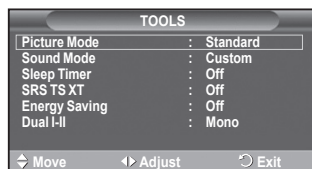
- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER** button.
- 3 Press the **ENTER** button again to select **Plug & Play**.
The message **Start Plug & Play**. is displayed.



Using the TOOLS Button

You can use the **TOOLS** button to select your frequently used functions quickly and easily. The "TOOLS" menu changes depending on which external input mode you are viewing.

- 1 Press the **TOOLS** button.
The **TOOLS** menu will appear.
- 2 Press the **▲** or **▼** button to select a menu, then press the **ENTER** button.
- 3 Press the **▲/▼/◀/▶/ENTER** buttons to display, change, or use the selected items.
For a more detailed description of each function, refer to the corresponding page.



- Picture Mode, see page 17
- Sound Mode, see page 23
- Sleep Timer, see page 26
- SRS TS XT, see page 24
- Energy Saving, see page 27
- Dual I-II, see page 25

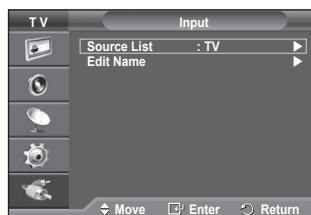
Viewing External Signal Sources

You can switch between viewing signals from connected equipment, such as a VCR, DVD, Set-Top Box, and the TV source (broadcast or cable).

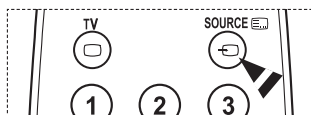
- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Input**, then press the **ENTER** button.
- 3 Press the **ENTER** button again to select **Source List**.
- 4 Press the **▲** or **▼** button to select the signal source, then press the **ENTER** button.

Available signal sources: **TV**, **AV1**, **AV2**, **S-Video**, **Component1**, **Component2**, **PC**, **HDMI1**, **HDMI2**

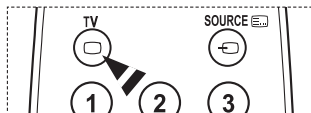
- You can choose only those external devices that are connected to the TV.



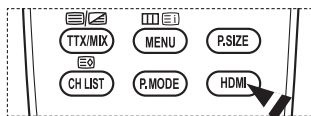
- You can select these options simply by pressing the **SOURCE** button on the remote control.



- To watch television programme again, press the **TV** button and select the channel number required.



- You can also watch HDMI mode simply by pressing the **HDMI** button on the remote control.



Editing Device Names

You can give a name to the external source.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Input**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **Edit Name**, then press the **ENTER** button.
- 4 Press the **▲** or **▼** button to select the external source to be edited, then press the **ENTER** button.
- 5 Select the required device by pressing **▲** or **▼**, then press the **ENTER** button.
Available device names: **VCR, DVD, Cable STB, Satellite STB, PVR STB, AV Receiver, Game, Camcorder, PC, TV, IPTV, Blu-Ray, HD DVD, DMA**
- 6 Press the **EXIT** button to exit.

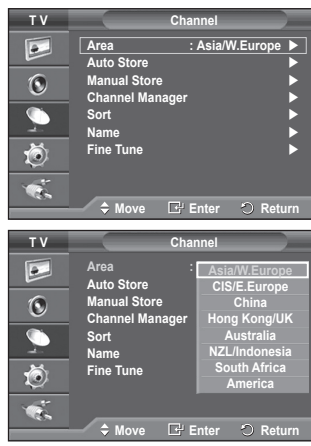


Storing Channels Automatically

You can scan for the frequency ranges available to you (availability depends on your country).

Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
- 3 Press the **ENTER** button to select **Area**.
- 4 Select your area by pressing the **▲** or **▼** button, then press the **ENTER** button.
- 5 Press the **▲** or **▼** button to select **Auto Store**, then press the **ENTER** button.
- 6 Press the **ENTER** button again to start the search.
The search will end automatically.
➤ To stop the search before it has finished, press the **RETURN** or the **ENTER** button.



Storing Channels Manually

You can store television channels, including those received via cable networks.

When storing channels manually, you can choose:

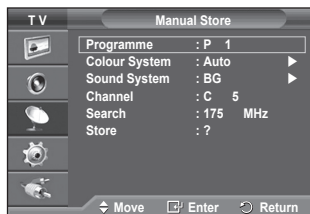
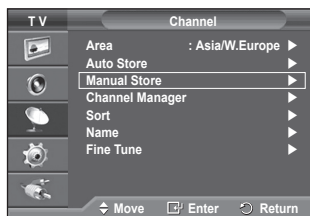
- ◆ Whether or not to store each of the channels found.
- ◆ The programme number of each stored channel which you wish to identify.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **Manual Store**, then press the **ENTER** button.
- 4 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.
- 5 When you are satisfied with your setting, press the **ENTER** button.
- 6 Press the **EXIT** button to exit.

- ◆ **Programme** (Programme number to be assigned to a channel)
 - Press the **▲** or **▼** button until you find the correct number.
 - You can also select the channel number directly by pressing the numeric buttons (0~9) on the remote control.
- ◆ **Colour System: Auto/PAL/SECAM/NTSC 4.43/NTSC 3.58**
 - Press the **▲** or **▼** button to select the required colour standard.
- ◆ **Sound System: BG/DK/I/M**
 - Press the **▲** or **▼** button to select the required sound standard.
- ◆ **Channel** (When you know the number of the channel to be stored)
 - Press the **▲** or **▼** button to select **C** (Air channel) or **S** (Cable channel).
 - Press the **►** button, then press the **▲** or **▼** button to select the required number.
 - You can also select the channel number directly by pressing the numeric buttons (0~9) on the remote control.
 - If there is abnormal sound or no sound, re-select the sound standard required.
- ◆ **Search** (When you do not know the channel numbers)
 - Press the **▲** or **▼** button to start the search.
 - The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.
- ◆ **Store** (When you store the channel and associated programme number)
 - Set to **OK** by pressing the **ENTER** button.

Channel mode

- ◆ **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
- ◆ **C** (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
- ◆ **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.



Adding / Locking Channels

Using the Channel Manager, you can conveniently add or lock channels.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **Channel Manager**, then press the **ENTER** button.

◆ Adding channels

Using the Channel List, you can add channels.

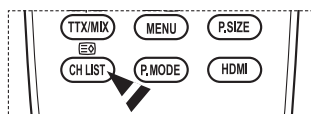
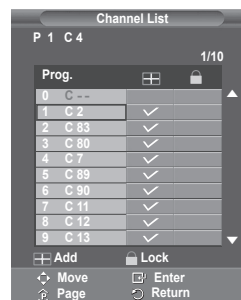
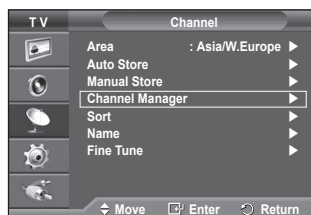
- 4 Press the **ENTER** button again to select **Channel List**.
- 5 Move to the (⊞) field by pressing the **▲/▼/◀/▶** buttons, select a channel to be added, and press the **ENTER** button to add the channel.
 - If you press the **ENTER** button again, the (✓) symbol next to the channel disappears and the channel is not added.

◆ Locking channels

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio.

- 6 Press the **▲** or **▼** button to select **Child Lock**, then press the **ENTER** button.
- 7 Select **On** by pressing the **▲** or **▼** buttons, then press the **ENTER** button.
- 8 Press the **▲** or **▼** button to select **Channel List**, then press the **ENTER** button.
- 9 Move to the (🔒) field by pressing the **▲/▼/◀/▶** buttons, select a channel to be locked, and press the **ENTER** button.
 - If you press the **ENTER** button again, the (✓) symbol next to the channel disappears and the channel lock is canceled.
 - A blue screen is displayed when **Child Lock** is activated.
- 10 Press the **EXIT** button to exit.

- You can select these options simply by pressing the **CH LIST** button on the remote control.

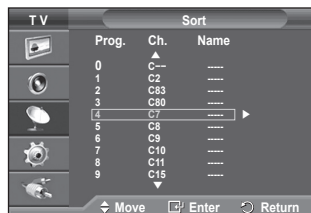
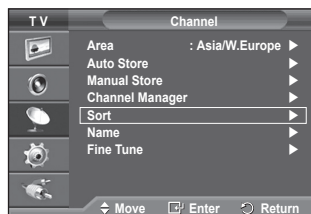


Sorting the Stored Channels

This operation allows you to change the programme numbers of the stored channels.

This operation may be necessary after using the auto store.

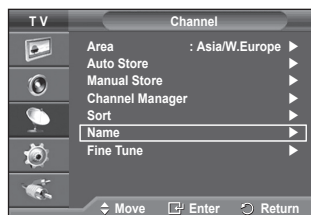
- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **Sort**, then press the **ENTER** button.
- 4 Select the channel that you wish to move by pressing the **▲** or **▼** button, then press the **ENTER** button.
- 5 Select the number of the programme to which the channel is to be moved by pressing the **▲** or **▼** button. Press the **ENTER** button. The channel is moved to its new position and all other channels are shifted accordingly.
- 6 Repeat steps 4 to 5 until you have moved all the channels to the required programme numbers.
- 7 Press the **EXIT** button to exit.



Assigning Names to Channels

Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **Name**, then press the **ENTER** button.
- 4 Press the **▲** or **▼** button to select the channel to be assigned to a new name, then press the **ENTER** button.
- 5 Press the **▲** or **▼** button to select a letter, a number, or a symbol (Results in this sequence: A~Z, 0~9, +, -, *, /, blank). Move on to the previous or next letter by pressing the **◀** or **▶** button, then press the **ENTER** button.
- 6 Repeat steps 4 to 5 for each channel to be assigned to a new name.
- 7 Press the **EXIT** button to exit.

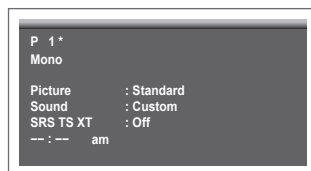
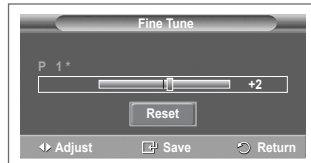
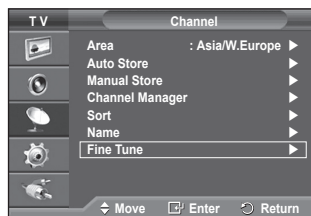


Fine Tuning Channel Reception

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation.

If the signal is weak or distorted, you may have to fine tune the channel manually.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **Fine Tune**, then press the **ENTER** button.
- 4 To obtain a sharp, and clear picture and good sound quality, press the **◀** or **▶** button until you reach the optimal setting. Press the **ENTER** button.
 - Press the **INFO** button. Fine Tune Store will change the colour of the Channel OSD (On Screen Display) from white to red and add the "*" mark.
 - To reset the fine tuning to 0, select **Reset** by pressing the **▲** or **▼** button. Press the **ENTER** button.
- 5 Press the **EXIT** button to exit.



Changing the Picture Standard

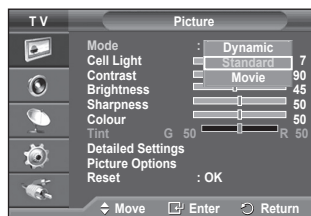
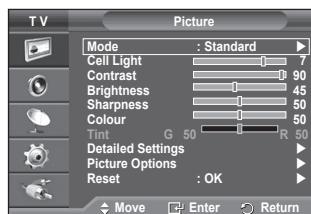
You can select the type of picture which best corresponds to your viewing requirements.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER** button to select **Picture**.
- 3 Press the **ENTER** button again to select **Mode**.
- 4 Select the required mode by pressing the **▲** or **▼** button, then press the **ENTER** button.

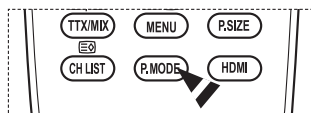
Available modes: **Dynamic**, **Standard**, **Movie**

➤ The settings values may vary depending on the input source.

- 5 Press the **EXIT** button to exit.
- Choose **Dynamic** for viewing the TV during the day or when there is bright light in the room.
 - Choose **Standard** for general TV watching mode.
 - Choose **Movie** when viewing the movie.

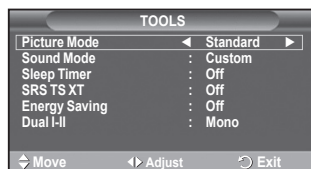


- You can select these options simply by pressing the **P.MODE** button on the remote control.



Easy Setting

- 1 Press the **TOOLS** button on the remote control.
- 2 Press the **▲** or **▼** button to select **Picture Mode**.
- 3 Press the **◀** or **▶** button to select the required option.
- 4 Press the **EXIT** or **TOOLS** button to exit.



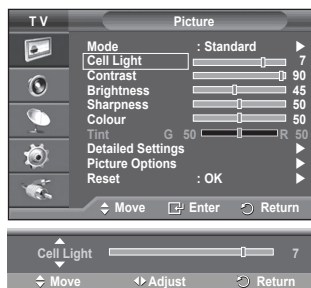
Customizing the Picture Settings

Your television has several setting options that allow you to control the picture quality.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER** button to select **Picture**.
- 3 Press the **ENTER** button again to select **Mode**.
- 4 Select the required mode by pressing the **▲** or **▼** button, then press the **ENTER** button.
Available modes: **Dynamic**, **Standard**, **Movie**
- 5 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.
- 6 When you are satisfied with your setting, press the **ENTER** button.
- 7 Press the **EXIT** button to exit.

◆ Cell Light - Contrast – Brightness – Sharpness – Colour – Tint

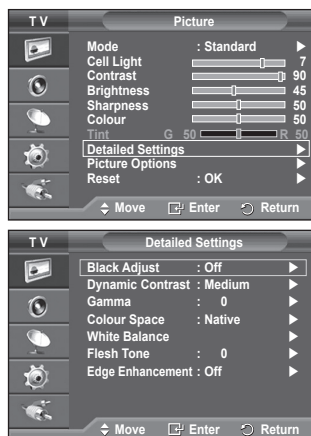
- In TV, AV, S-Video modes of the PAL system, you cannot use the Tint Function.
- In PC mode, you can only make changes to **Cell Light**, **Contrast**, and **Brightness**.
Press the **◀** or **▶** button until you reach the optimal setting.



Configuring Detailed Settings on the Picture

You can set detail picture settings.

- 1 Press the **MENU** button to display the menu.
 - 2 Press the **ENTER** button to select **Picture**.
 - 3 Press the **▲** or **▼** button to select **Detailed Settings**, then press the **ENTER** button.
Available options: **Black Adjust**, **Dynamic Contrast**, **Gamma**, **Colour Space**, **White Balance**, **Flesh Tone**, **Edge Enhancement**.
 - 5 When you are satisfied with your setting, press the **ENTER** button.
 - 6 Press the **EXIT** button to exit.
- When the picture mode is set to **Movie** or **Standard**, **Detailed Settings** can be selected.
 - In PC mode, you can only make changes to **Dynamic Contrast**, **Gamma** and **White Balance** from among the **Detailed Settings** items.



Continued...

◆ **Black Adjust: Off/Low/Medium/High**

You can directly select the black level on the screen to adjust the screen depth.

◆ **Dynamic Contrast: Off/Low/Medium/High**

You can adjust the screen contrast so that the optimal contrast is provided.

◆ **Gamma: -3 ~ +3**

You can adjust the middle brightness of pictures.

Press the ◀ or ▶ button until you reach the optimal setting.

◆ **Colour Space: Auto/Native/Custom**

Colour space is a colour matrix composed of red, green and blue colours.

Select your favorite colour space to experience the most natural colour.

- **Auto:** Auto Colour Space automatically adjusts to the most natural colour tone based on program sources.
- **Native:** Native Colour Space offers deep and rich colour tone.
- **Custom:** Adjusts the colour range to suit your preference. (see "Customizing the Colour Space")

Customizing the Colour Space

Colour: Red/Green/Blue/Yellow/Cyan/Magenta

Adjusts the Colour range to suit your preference.

Colour is available when **Colour Space** is set to **Custom**.

Press the ▲ or ▼ button to select **Red, Green, Blue, Yellow, Cyan** or **Magenta**.

Press the **ENTER** button.

- **Red/Green/Blue:** In Colour, you can adjust the RGB values for the selected colour.
Press the ▲ or ▼ button to select **Red, Green** or **Blue** to change it. Press the **ENTER** button.
Press the ◀ or ▶ button to decrease or increase the value of a particular item.
Press the **ENTER** button.
- **Reset:** Resets the colour space to the default values.

◆ **White Balance: R-Offset/G-Offset/B-Offset/R-Gain/G-Gain/B-Gain/Reset**

You can adjust the colour temperature for more natural picture colours.

R-Offset/G-Offset/B-Offset/R-Gain/G-Gain/B-Gain: Changing the adjustment value will refresh the adjusted screen.

Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button.

Press the ◀ or ▶ button until you reach the optimal setting.

Reset: The previously adjusted white balance will be reset to the factory defaults.

◆ **Flesh Tone: -15~+15**

You can emphasize the pink tone in the picture.

Press the ◀ or ▶ button until you reach the optimal setting.

➤ Changing the adjustment value will refresh the adjusted screen.

◆ **Edge Enhancement: Off/On**

You can emphasize object boundaries.

Picture Options

You can set detailed picture settings.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER** button to select **Picture**.
- 3 Press the **▲** or **▼** button to select **Picture Options**, then press the **ENTER** button.
- 4 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.
- 5 When you are satisfied with your setting, press the **ENTER** button.
- 6 Press the **EXIT** button to exit.

➤ In PC mode, you can only make changes to the **Colour Tone**, **Size** and **Screen Burn Protection** from among the items in **Picture Options**.

◆ **Colour Tone: Cool2/Cool1/Normal/Warm1/Warm2**

➤ When the picture mode is set to **Dynamic** or **Standard**, **Warm1** and **Warm2** cannot be selected.

◆ **Size: 16 : 9/Wide Zoom/Zoom/4 : 3/Just Scan**

You can select the picture size which best corresponds to your viewing requirements.

- **16 : 9**: Sets the picture to 16:9 wide mode.
- **Wide Zoom**: Magnify the size of the picture more than 4:3. Move the screen up/down using the **▲** or **▼** button after selecting the  by pressing the **►** or **ENTER** button.
- **Zoom**: Magnify the size of the picture vertically on screen.
- **4 : 3**: Sets the picture to 4:3 normal mode.
- **Just Scan**: Use the function to see the full image without any cutoff when HDMI (720p/1080i), Component (1080i) signals are input.

After selecting Just Scan in HDMI (1080i) or Component (1080i) mode:

Press the **◀** or **▶** button to select , then press the **ENTER** button.

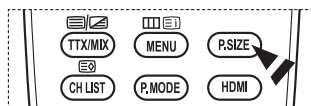
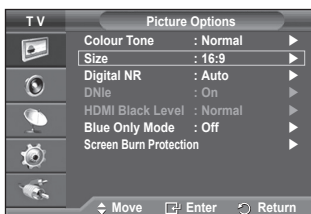
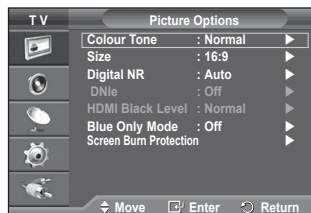
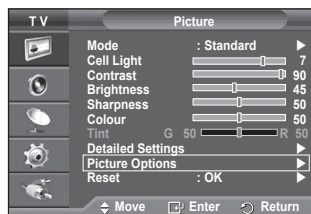
Press the **▲**, **▼**, **◀** or **▶** button to move the picture up, down, left and right.

Reset: Press the **◀** or **▶** button to select "Reset", then press the **ENTER** button. You can initialize the setting.

➤ With the HDMI Just Scan picture size, depending on the AV devices, the screen may be cut off or a specific appears on the screen.

➤ For an HDMI (1080p) connection of 24, 25, 30, 50, and 60 Hz, and for a Component (1080p) connection of 50 and 60Hz, only the input source is supported.

- You can change the picture size simply by pressing the **P.SIZE** button on the remote control.
- Depending on the input source, the picture size options may vary.
- The items available may differ depending on the selected mode.
- Settings can be adjusted and stored for each external device you have connected to an input of the TV.
- In PC Mode, only "16:9" and "4:3" mode can be adjusted.



Positioning and Sizing the screen using Zoom

- Resizing the screen using the **Zoom** enables the positioning and sizing of the screen to up/down direction using the **▲** or **▼** button as well as the screen size.
- Move the screen up/down using the **▲** or **▼** button after selecting the  by pressing the **◀** or **▶** button.
- Resize the screen vertically using the **▲** or **▼** button after selecting the  by pressing the **◀** or **▶** button.

Continued...

◆ **Digital NR: Off/Low/Medium/High/Auto**

If the signal received by the television is weak, you can activate this feature to reduce any static and ghosting that may appear on the screen.

➤ This function is not available in PC mode.

◆ **DNLe: Off/Demo/On**

This TV includes the DNLe function so as to provide a high visual quality. If you set DNLe to on, you can view the screen with the DNLe feature activated. If you set the DNLe to Demo, you can view the applied DNLe and normal pictures on the screen, for demonstration purposes. Using this function, you can view the difference in the visual quality.

➤ **DNLe™ (Digital Natural Image engine)** **DNLe**

This feature brings you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. New image compensation Algorithm gives brighter, clearer, more detailed image to you. DNLe™ technology will fit every signal into your eyes.

➤ This function is not available in PC mode.

➤ **DNLe** is only available in **Dynamic** mode.

◆ **HDMI Black Level: Normal/Low**

Using this function, you can adjust the image quality when the screen burn (appearance of black level, low contrast, low colour, etc.) is encountered by the HDMI input for RGB limited range (16 to 235).

➤ This function is active only when the external input connects to HDMI(RGB signals).

◆ **Blue Only Mode: Off/On**

This function is for AV device measurement experts. This function displays the blue signal only by removing the red and green signals from the video signal so as to provide a Blue Filter effect that is used to adjust the Color and Tint of video equipment such as DVD players, Home Theaters, etc. Using this function, you can adjust the Color and Tint to preferred values appropriate to the signal level of each video device using the Red/Green/Blue/Cyan/Magenta/Yellow Color Bar Patterns, without using an additional Blue Filter.

➤ **Blue Only Mode** is available when the picture mode is set to **Movie** or **Standard**.

◆ **Screen Burn Protection: Pixel Shift/White/Scrolling/Side Gray**

To reduce the possibility of screen burn, this unit is equipped with screen burn prevention technology. This technology enables you to set picture movement up/down (Vertical Line) and side to side (Horizontal Dot). The Time setting allows you to program the time between movement of the picture in minutes.

- **Pixel Shift:** Using this function, you can minutely move pixels on the PDP in horizontal or vertical direction to minimize after image on the screen.

- Set **Pixel Shift** to **On** by pressing the **▲** or **▼** button, then press the **ENTER** button.

- Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.

Available options: **Horizontal Dot**, **Vertical Line**, **Time**

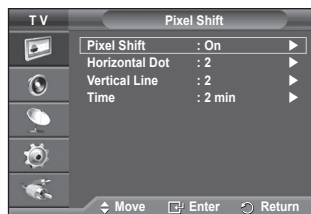
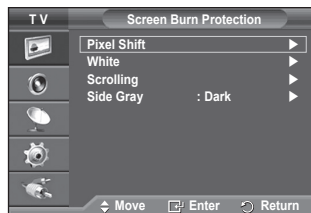
➤ Optimum condition for pixel shift;

	PC	TV/AV/S-Video/ Component/HDMI
Horizontal Dot	1	2
Vertical Line	1	2
Time (minute)	2	2 min

➤ The Pixel Shift value may differ depending on the monitor size (inches) and mode.

➤ This function is not available in the Just Scan mode.

Continued...



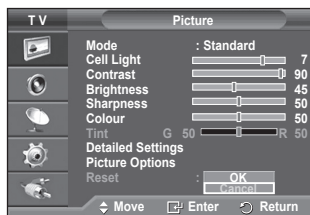
- **White:** This function helps remove after images on the screen by changing the colour of pixels to white. Use this function when there are remaining after images or symbols on the screen especially when you displayed a still image on the screen for a long time.
- **Scrolling:** This function helps remove after images on the screen by moving all the pixels on the PDP according to a pattern. Use this function when there are remaining after images or symbols on the screen especially when you displayed a still image on the screen for a long time.
- **Side Gray:** When you watch TV with the screen ratio of 4:3, the screen is prevented from any damage by adjusting the white balance on both extreme left and right sides.
Dark: When you set the screen ratio to 4:3, it darkens the left and right sides.
Light: When you set the screen ratio to 4:3, it brightens the left and right sides.
- To remove after images on the screen, use either **White** or **Scrolling** function.
Although both of the two functions remove after images on the screen, **Scrolling** is more effective.
- The after image removal function has to be executed for a long time (approximately 1 hour) to effectively remove after images on the screen. If after image is not improved after the execution of the function, repeat the function again.
- Press any button on the remote control to cancel this feature.

Resetting the Picture Settings to the Factory Defaults

You can set detailed picture settings.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER** button to select **Picture**.
- 3 Press the **▲** or **▼** button to select **Reset**, then press the **ENTER** button.
- 4 Press the **▲** or **▼** button to select **OK** or **Cancel** then press the **ENTER** button.

➤ Each mode can be reset.



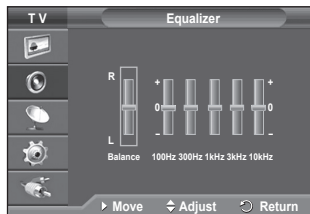
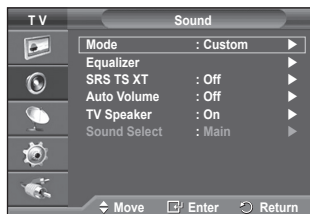
Sound Features

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Sound**, then press the **ENTER** button.
- 3 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.
Available options: **Mode**, **Equalizer**, **SRS TS XT**, **Auto Volume**, **TV Speaker**, **Sound Select**
- 4 When you are satisfied with your setting, press the **ENTER** button.
- 5 Press the **EXIT** button to exit.

◆ Mode: Standard/Music/Movie/Speech/Custom

You can select the type of special sound effect to be used when watching a given broadcast.

- ◆ Choose **Standard** for the TV standard factory settings.
- ◆ Choose **Music** when watching the music videos or concerts.
- ◆ Choose **Movie** when watching movies.
- ◆ Choose **Speech** when watching a show that is mostly dialog(i.e., news).
- ◆ Choose **Custom** to recall your personalized settings.



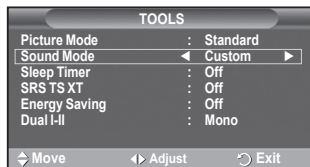
Easy Setting

- 1 Press the **TOOLS** button on the remote control.
- 2 Press the **▲** or **▼** button to select **Sound Mode**.
- 3 Press the **◀** or **▶** button to select the required option.
- 4 Press the **EXIT** or **TOOLS** button to exit.

◆ Equalizer: Balance/100Hz/300Hz/1kHz/3kHz/10kHz

The television has several settings which allow you to control the sound quality.

- ◆ **R/L Sound Balance Adjustment:**
To adjust the sound balance of the R/L speakers.
- ◆ **Bandwidth Adjustment(100Hz, 300Hz, 1kHz, 3kHz, 10kHz) :** To adjust the level of different bandwidth frequencies.
- If you make any changes to these settings, the sound standard is automatically switched to **Custom**.



Continued...

◆ **SRS TS XT: Off/On**

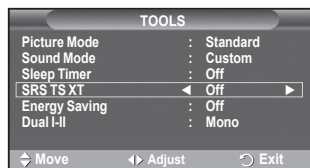
TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.



TruSurround XT, SRS and (●) Symbol are trademarks of SRS Labs, Inc.
TruSurround XT technology is incorporated under license from SRS Labs, Inc.

Easy Setting

- 1 Press the **TOOLS** button on the remote control.
- 2 Press the **▲** or **▼** button to select **SRS TS XT**.
- 3 Press the **◀** or **▶** button to select **Off** or **On**.
- 4 Press the **EXIT** or **TOOLS** button to exit.



◆ **Auto Volume: Off/On**

Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

◆ **TV Speaker: Off/On**

If you want to hear the sound through separate speakers, cancel the internal amplifier.

- The **+**, **-** and **MUTE** buttons do not operate when the **TV Speaker** is set to **Off**.
- When **TV Speaker** is set to **Off**, you can operate only Sound Select (in PIP mode) in Sound menu.

◆ **Sound Select: Main/Sub**

When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture.

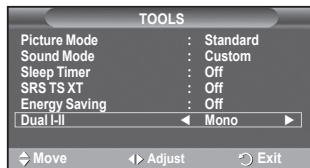
- **Main**: Used to listen to the sound of the main picture.
- **Sub**: Used to listen to the sound of the sub picture.

Selecting the Sound Mode (depending on the model)

The DUAL I-II button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either "DUAL-I" or "Stereo", depending on the current transmission.

Easy Setting

- 1 Press the **TOOLS** button on the remote control.
- 2 Press the **▲** or **▼** button to select **Dual I-II**.
- 3 Press the **◀** or **▶** button to select the required option.
- 4 Press the **EXIT** or **TOOLS** button to exit.



	Type of broadcast	On-screen indication		
NICAM Stereo	Regular broadcast (Standard audio)	Mono (Normal use)		
	Regular + NICAM Mono	NICAM	↔	Mono (Normal)
	NICAM Stereo	NICAM Stereo	↔	Mono (Normal)
	NICAM DUAL-I/II	NICAM DUAL-1	→ NICAM DUAL-2 →	Mono (Normal)
A2 Stereo	Regular broadcast (Standard audio)	Mono (Normal use)		
	Bilingual or DUAL-I/II	DUAL I	↔	DUAL II
	Stereo	Stereo	↔	Mono (Forced mono)

- ◆ If the receiving conditions deteriorate, listening will be easier if the mode is set to **Mono**.
- ◆ If the stereo signal is weak and automatic switching occurs, switch to **Mono**.

Connecting Headphones (Sold separately)

You can connect a set of headphones to your set if you wish to watch a TV program without disturbing other people in the room.

- When you insert the head set jack into the corresponding port, you can operate only Auto Volume and Sound Select(in PIP mode) in Sound menu.
- Prolonged use of headphones at a high volume may damage your hearing.
- You will not hear sound from the speakers when you connect headphones to the TV.
- The headphone volume and TV volume are adjusted separately.



Time Features

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **Time**, then press the **ENTER** button.
- 4 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.
Available options: **Clock Set**, **Sleep Timer**, **Timer1**, **Timer2**, **Timer3**
- 5 When you are satisfied with your setting, press the **ENTER** button.
- 6 Press the **EXIT** button to exit.

◆ Clock Set

You can set the television clock so that the current time is displayed when pressing the **INFO** button on the remote control. You must also set the time if you wish to use the automatic on or off timers.

- Press the **◀** or **▶** button to select **Month**, **Day**, **Year**, **Hour**, **Minute**, or **am/pm**.

Set these by pressing the **▲** or **▼** button.

- You can set the **Month**, **Day**, **Year**, **Hour**, and **Minute** directly by pressing the numeric buttons on the remote control.
- In the event of a power interruption or the set being turned off at the supply, the settings for the Clock will be lost.

◆ Sleep Timer

You can select a time period of between 30 and 180 minutes after which the television automatically switches to standby mode.

- Select the preset time interval (**Off**, **30**, **60**, **90**, **120**, **150**, **180**) for staying on by pressing the **▲** or **▼** button.

Easy Setting

- 1 Press the **TOOLS** button on the remote control.
- 2 Press the **▲** or **▼** button to select **Sleep Timer**.
- 3 Press the **◀** or **▶** button to select the minute.
- 4 Press the **EXIT** or **TOOLS** button to exit.

◆ Timer1 / Timer2 / Timer3

You can set the On/Off timers so that the television will switch on or off automatically at the time you select.

- ☛ You must set the clock first.

- Press the **◀** or **▶** button to select the required item below.

Press the **▲** or **▼** button to adjust to the setting satisfied.

On Timer : Select hour, minute, **am/pm**, and **Off/On**.

(To activate timer with the setting satisfied, set to **On**.)

Off Timer : Select hour, minute, **am/pm**, and **Off/On**.

(To activate timer with the setting satisfied, set to **On**.)

Repeat : Select **Once**, **Everyday**, **Mon ~ Fri**, **Mon ~ Sat**, or **Sat ~ Sun**.

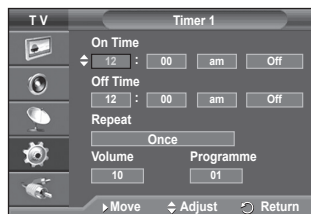
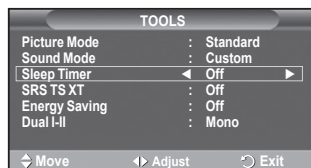
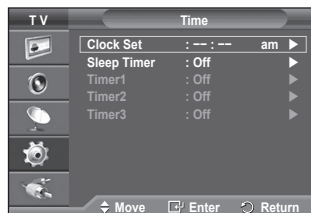
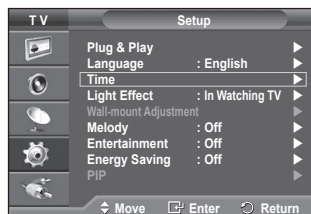
Volume : Select the required volume level.

Programme : Select the required channel.

- You can set the hour, and minute directly by pressing the number buttons on the remote control.

☛ Auto Power Off

When you set the timer "On", the TV will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer "On" mode and prevents overheating, which may occur if a TV is on for too long time.



Language / Light Effect / Melody / Entertainment / Energy Saving

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER** button.
- 3 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.
- 4 When you are satisfied with your setting, press the **ENTER** button.
- 5 Press the **EXIT** button to exit.



◆ Language

It is variable depending on the model. When you start using the television for the first time, you must select the language which will be used for displaying menus and indications.

◆ Light Effect: Off/ In Standby/In Watching TV/Always

You can turn on/off the blue LED on the front of TV according to the situation. Use it for saving power or when the LED dazzles your eyes.

- **Off:** The blue LED is always off.
- **In Standby:** The blue LED lights while in Standby mode and it turns off when your TV is turned on.
- **In Watching TV:** The blue LED lights when watching TV and it turns off when your TV is turned off.
- **Always:** The blue LED always lights.

➤ Set the **Light Effect** to **Off** to reduce the power consumption.

◆ Melody: Off/Low/Medium/High

The TV power on/off melody sound can be adjusted.

- When the Melody does not play
- When no sound is output from the TV because the **MUTE** button has been pressed.
- When no sound is output from the TV because the **⊖** (Volume) button has been pressed.
- When the TV is turned off by **Sleep Timer** function.

◆ Entertainment: Off/Sports/Cinema/Game

Entertainment mode enables you to select the optimal display and sound for sports, cinema and games.

- **Off:** Switches the **Entertainment** function off.
- **Sports:** Provides the optimal picture and sound quality for sports.
- **Cinema:** Provides the optimal picture and sound quality for movie watching.
You can experience a richer picture and enhanced sound.
- **Game:** Provides the optimal picture and sound quality for games. This mode accelerates the playing speed when using an external game console connected to the TV.
- If you set any of the three **Entertainment** modes to **On**, the settings will be locked and can not be adjusted. If you want to make Picture and Sound mode adjustments, the Entertainment mode must be turned off.
- The Entertainment settings are saved for each input source.

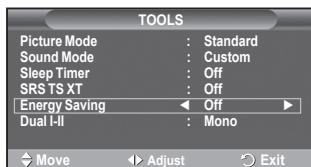
◆ Energy Saving: Off/Low/Medium/High

This feature adjusts the screen brightness depending on the surrounding lighting conditions.

- **Off:** Switches off the Energy Saving mode.
- **Low:** Operates in standard mode regardless of the surrounding illumination.
- **Medium:** Enters medium power saving mode regardless of the surrounding illumination.
- **High:** Enters maximum power saving mode regardless of the surrounding illumination.

Easy Setting

- 1 Press the **TOOLS** button on the remote control.
- 2 Press the **▲** or **▼** button to select **Energy Saving**.
- 3 Press the **◀** or **▶** button to select the required option.
- 4 Press the **EXIT** or **TOOLS** button to exit.



Viewing the Picture in Picture (PIP)

You can display a sub picture within the main picture. In this way you can watch TV program or monitor the video input from any connected devices.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **PIP**, then press the **ENTER** button.
- 4 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.
Available options: **PIP(Off/On)**, **Source**, **Size**, **Position**, **Programme**
- 5 When you are satisfied with your setting, press the **ENTER** button.
- 6 Press the **EXIT** button to exit.

◆ **PIP: Off/On**

You can activate or deactivate the PIP function.

Main picture	Sub picture
Component1, 2	TV, AV1, AV2
HDMI1, 2	
PC	

◆ **Source: TV/AV1/AV2**

You can select a source of the sub-picture.

➤ You can select these options simply by pressing the **SOURCE** button on the remote control.

◆ **Size: / /**

You can select a size of the sub-picture.

➤ If main picture is in **PC** and **Component** mode, **Size** is not available.

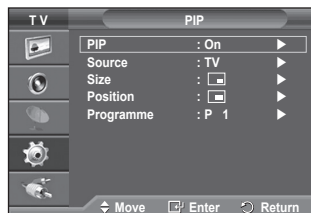
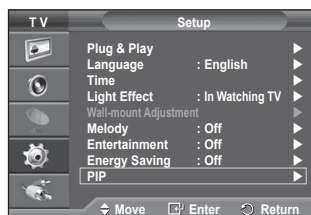
◆ **Position: / / /**

You can select a position of the sub-picture.

➤ In Double( , ) mode, **Position** cannot be selected.

◆ **Programme**

You can select a channel of the sub-picture only when the **Source** is set to **TV**.



Setting up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

- 1 Right click the mouse on the Windows Desktop, then click on **Properties**.
The **Display Properties** will be displayed.
- 2 Click on **Settings** tab, then set the Display Mode with reference to the Display Modes Table. You do not need to change the Colours settings.
- 3 Click on **Advanced**. A new settings dialog box will be displayed.
- 4 Click on the **Monitor** tab, then set the **Screen refresh rate** with reference to the Display Modes Table. Set the Vertical Frequency and Horizontal Frequency individually if you can do so instead of setting the **Screen refresh rate**.
- 5 Click on **OK** to close the window, then Click on **OK** button to the **Display Properties** window. Automatic re-booting may commence at this moment.



Input Mode (PC)

Both screen position and size will vary depending on the type of PC monitor and its resolution.

The table below shows all of the display modes that are supported:

D-Sub Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)	PS42A410	PS50A410
IBM	640 x 350	31.469	70.086	25.175	+ / -	✓	✓
	720 x 400	31.469	70.087	28.322	- / +	✓	✓
VESA	640 x 480	31.469	59.940	25.175	- / -	✓	✓
	640 x 480	37.861	72.809	31.500	- / -	✓	✓
	640 x 480	37.500	75.000	31.500	- / -	✓	✓
	800 x 600	37.879	60.317	40.000	+ / +	✓	✓
	800 x 600	48.077	72.188	50.000	+ / +	✓	✓
	800 x 600	46.875	75.000	49.500	+ / +	✓	✓
	1024 x 768	48.363	60.004	65.000	- / -	✓	✓
	1024 x 768	56.476	70.069	75.000	- / -	✓	✓
	1024 x 768	60.023	75.029	78.750	+ / +	✓	✓
	1360 x 768	47.712	60.015	85.500	+ / +	✓	✓

HDMI/DVI Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)	PS42A410	PS50A410
VESA	640 x 480	31.469	59.940	25.175	- / -	✓	✓
	800 x 600	37.879	60.317	40.000	+ / +	✓	✓
	1024 x 768	48.363	60.004	65.000	- / -	✓	✓
	1360 x 768	47.712	60.015	85.500	+ / +	✓	✓

- ◆ When using an HDMI/DVI cable connection, you must use the HDMI IN 2 jack.
- ◆ The interlace mode is not supported.
- ◆ The set might operate abnormally if a non-standard video format is selected.
- ◆ Separate and Composite modes are supported. SOG is not supported.
- ◆ For the PS42A410, PC text quality is optimum in **VESA** mode(1024 x 768@60Hz).
- ◆ For the PS50A410, PC text quality is optimum in **VESA** mode (1360 x 768@60Hz).

Setting the PC

➤ Preset to the **PC** mode by pressing the **SOURCE** button.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER** button to select **Picture**.
- 3 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.

Available options: **Auto Adjustment**, **Screen Adjustment**, **Reset**

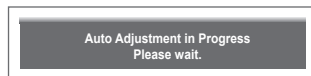
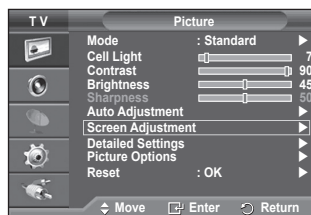
- 4 When you are satisfied with your setting, press the **ENTER** button.

- 5 Press the **EXIT** button to exit.

◆ Auto Adjustment

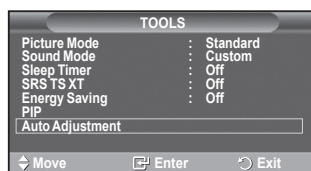
Auto adjustment allows the PC screen to self-adjust to the incoming PC video signal.

The values of fine, coarse and position are adjusted automatically.



Easy Setting

- 1 Press the **TOOLS** button on the remote control.
- 2 Press the **▲** or **▼** button to select **Auto Adjustment**, then press the **ENTER** button.



◆ Screen Adjustment: Coarse/Fine/Position/Image Reset

- Coarse/Fine

The purpose of picture quality adjustment is to remove or reduce picture noise.

If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (coarse) and Fine-tune again.

After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.

- 1 Press the **▲** or **▼** button to select **Coarse** or **Fine**, then press the **ENTER** button.
- 2 Press the **◀** or **▶** button to adjust the screen quality, vertical stripes may appear or the picture may be blurry. Press the **ENTER** button.

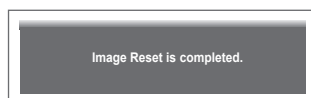
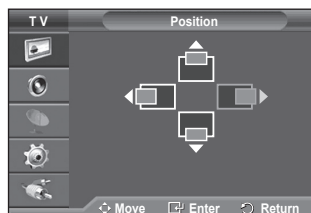
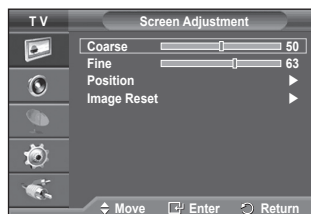
- Position

Adjust the PC's screen positioning if it does not fit the TV screen.

- 1 Adjust the position by pressing the **▲/▼/◀/▶** button.
- 2 Press the **ENTER** button.

- Image Reset

You can replace all image settings with the factory default values.



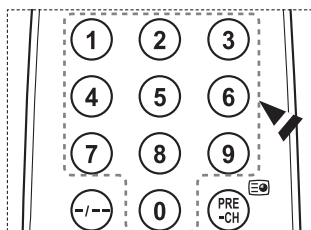
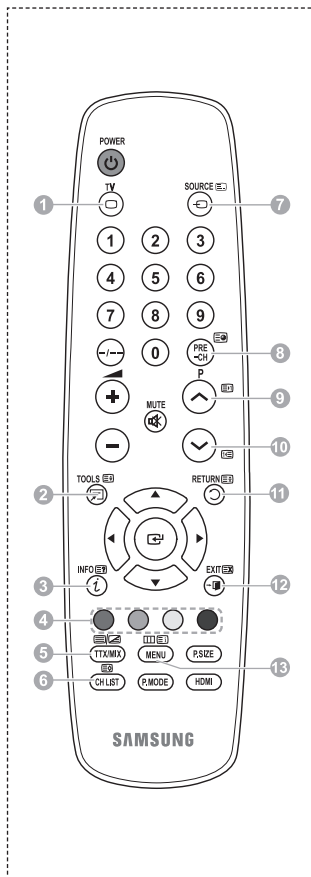
Teletext Feature (depending on the model)

Most television stations provide written information services via teletext. The index page of the teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

For teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

- 1 **TV**
Exit from the teletext display (depending on the model)
- 2 **[size]**
Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again.
To display normal screen, press it once again.
- 3 **[reveal]**
Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.
- 4 **Coloured buttons (red/green/yellow/blue)**
If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way.
To display the previous or next page, press the corresponding coloured button.
- 5 **[teletext on/mix]**
Press to activate teletext mode after selecting the channel providing the teletext service. Press it twice to overlap the teletext with the current broadcasting screen.
- 6 **[store]**
Used to store the teletext pages.
- 7 **[mode]**
Press to select the teletext mode (LIST/FLOF).
If you press it in the LIST mode, it switches into the List save mode.
In the List save mode, you can save teletext page into list using the [store] button.
- 8 **[sub-page]**
Used to display the available sub-page.
- 9 **[page up]**
Used to display the next teletext page.
- 10 **[page down]**
Used to display the previous teletext page.
- 11 **[hold]**
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.
- 12 **[cancel]**
Used to display the broadcast when searching for a page.
- 13 **[index]**
Used to display the index (contents) page at any time while you are viewing teletext.

➤ You can change teletext pages by pressing the numeric buttons on the remote control.

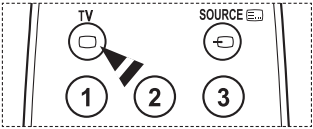
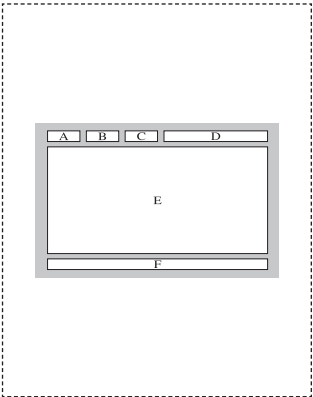


Continued...

The teletext pages are organized according to six categories:

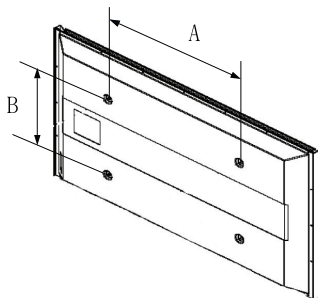
Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

- Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
 - ◆ Entering the page number
 - ◆ Selecting a title in a list
 - ◆ Selecting a coloured heading (FASTEXT system)
- Press the **TV** button to exit from the teletext display.



Wall Mount Kit Specifications (VESA)

Install your wall mount on a solid wall perpendicular to the floor.
When attaching to other building materials, please contact your nearest dealer.
If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.



Product Family	inch	VESA Spec. (A * B)	Standard Screw	Quantity
LCD-TV	23 ~ 26	200 * 100	M4	4
	32 ~ 40	200 * 200	M6	
	46 ~ 52	400 * 400 600 * 400	M8	
	57	700 * 400 (No VESA)		
	57 ~ 70	800 * 400		
	80 ~	1400 * 800		
PDP-TV	42 ~ 58	400 * 400 600 * 400	M8	4
	63	676 * 407 (No VESA)		6
	63 ~ 70	800 * 400		4
	80 ~	1400 * 800		4

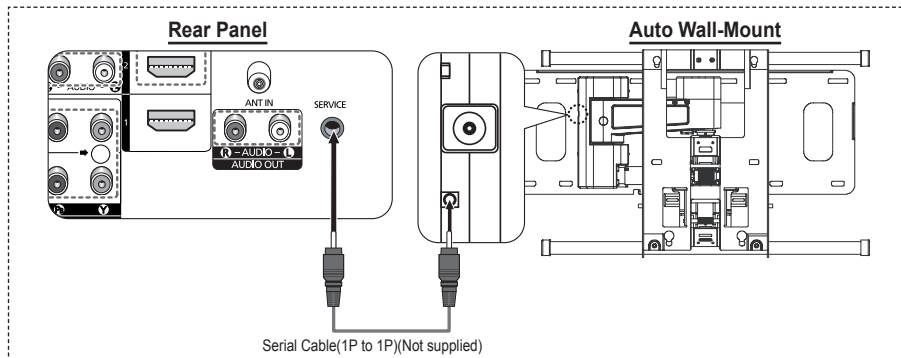
- We provided the standard dimensions for wall mount kits as shown in the table above.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use fasten the screws too strongly, this may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Our 57" and 63" models do not comply with VESA Specifications. Therefore, you should use our dedicated wall mount kit for this model.
- Do not exceed 15 degrees tilt when mounting this TV.



Do not install your Wall Mount Kit while your TV is turned on.
It may result in personal injury due to electric shock.

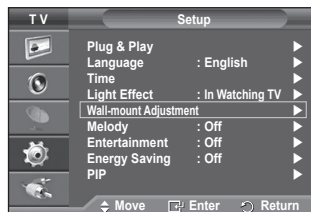
Wall- mount adjustment (Sold separately)

Once the auto wall mount is installed, the position of your TV can be easily adjusted.



Entering the menu

- Press the **▲**, **▼**, **◀** or **▶** button on your remote control.
 - The Wall Mount Adjustment screen is displayed.
 - If the Wall Mount Adjustment screen is not displayed when clicking on a direction button while watching your TV, use the menu to display that screen.
 - Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select **Setup**, then press the **ENTER** button.
 - Press the **▲** or **▼** button to select **Wall-Mount Adjustment**, then press the **ENTER** button.

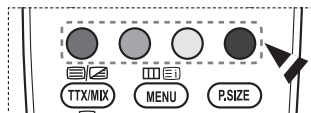
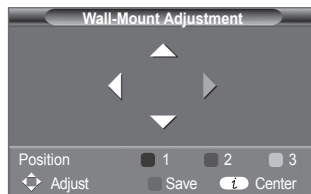


Remembering the Position

- Adjust to the desired position using the **▲**, **▼**, **◀**, **▶** buttons.
 - If you press an arrow button when no OSD is displayed on the TV screen, the Adjustment screen appears.
 - Press the **INFO** button to reset. Press the **◀** or **▶** button to select **Yes**, then press the **ENTER** button. The position is initialized to the default setting.
- Press the blue button.

Press the **▲** and **▼** buttons to select a save mode from either **Position1**, **Position2** or **Position3** in order to save the current position.

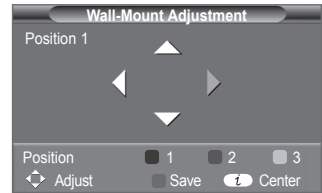
 - To not save the current position, press the **RETURN** button.
 - When selecting a save mode, you cannot use the Colour buttons.
- Press the **ENTER** button to save.
 - When **Position1** is selected, the message **Current position saved as Position1** is displayed.
- Press the **ENTER** button.
 - The saved Position appears on the left side of the OSD.



Continued...

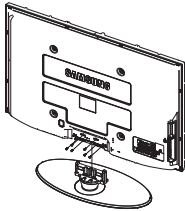
Moving to the remembered position

- 1 Complete Step 1 of **Entering the menu**.
- 2 Pressing a Colour (Red, Green, Yellow) button moves the auto wall mount to the saved position.
 - You can move the wall mount to one of the 3 pre-set positions by pressing the Red (Position 1), Green (Position 2) or Yellow (Position 3) buttons.
 - If you adjust the position after moving to a pre-set position, the position display will disappear.
- For installation, refer to the Installation Manual provided with the wall mount.
- For product installation and the installation and moving of the wall mount, make sure to consult a specialized installation company.
- This installation manual is to be used when attaching the wall mount to a wall. When attaching to other building materials, please contact your nearest dealer.
- The auto wall mount will not work when Anynet+ is operating.
- 42 inches model is not compatible with the older wall mount model (WMN5090A).



How to assemble the Stand-Base (depending on the model)

Using the screws for securing the stand base and the monitor, firmly attach the monitor to the stand base.
(The exterior of the set may be different from the picture.)

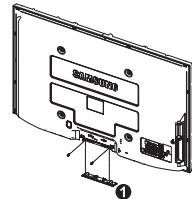


Warning

Firmly secure the stand to the TV before moving it, as the stand may fall and could cause serious injury.

- Two or more people should carry the TV. Never lay the TV on the floor because of possible damage to the screen.
- Always store the TV upright.

In case of installing your TV on the wall, close the cover (❶) on the stand-base connection part using two screws for hiding.



Troubleshooting

Before contacting the Samsung after-sales service, perform the following simple checks. If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture

- ◆ Check that the mains lead has been connected to a wall socket.
- ◆ Check that you have pressed the **(⏻) (Power) button (On/Off)** on the front panel or press the **POWER** button on the remote control.
- ◆ Check the picture contrast and brightness settings.
- ◆ Check the volume.
- ◆ Check if **TV Speaker** is set to **Off**.

Normal picture but no sound

- ◆ Check the volume.
- ◆ Check whether the volume **MUTE** button on the remote control has been pressed.

No picture or black and white picture

- ◆ Adjust the colour settings.
- ◆ Check that the broadcast system selected is correct.

Sound and picture interference

- ◆ Try to identify the electrical appliance that is affecting the television, then move it further away.
- ◆ Plug the television into a different main socket.

Blurred or snowy picture, distorted sound

- ◆ Check the direction, location and connections of your aerial.
This interference often occurs due to the use of an indoor aerial.

Remote control malfunctions

- ◆ Replace the remote control batteries.
- ◆ Clean the upper edge of the remote control (transmission window).
- ◆ Check that the “+” and “-” ends of the batteries are inserted correctly.
- ◆ Check that the batteries are drained.

Screen is black and power indicator light blinks steadily

- ◆ On your computer check; Power, Signal Cable.
- ◆ The TV is using its power management system.
- ◆ Move the computer's mouse or press any key on the keyboard.
- ◆ On your equipment check (STB, DVD, etc) ; Power, Signal Cable.
- ◆ The TV is using its power management system.
- ◆ Press the Source button on the panel or remote control.
- ◆ Turn the TV off and on.

The damaged picture appears in the corner of the screen.

- ◆ If **Just Scan** is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV.

The “Resets all settings to the default values” message appears.

- ◆ This appears when you press and hold the **EXIT** button for a while. The product settings are reset to the factory defaults.

Specifications

The descriptions and characteristics in this booklet are given for information purposes only and are subject to modification without notice.

Model Name	PS42A410	PS50A410
Screen Size (Diagonal)	42 inch	50 inch
PC Resolution	1024 x 768 @ 60 Hz	1360 x 768 @ 60 Hz
Sound (Output)	10W + 10W	10W + 10W
Dimension (WxHxD)		
Body	1054.9 X 699.4 X 95.0 mm	1230.9 X 769.7 X 95.0 mm
With stand	1054.9 X 759.4 X 315.9 mm	1230.9 X 821.8 X 315.9 mm
Weight		
Body	27.8 Kg	34 Kg
With stand	31.5 Kg	37.6 Kg
Environmental Considerations		
Operating Temperature	50 °F to 104 °F (10 °C to 40 °C)	
Operating Humidity	10% to 80%, non-condensing	
Storage Temperature	-4 °F to 113 °F (-20 °C to 45 °C)	
Storage Humidity	5% to 95%, non-condensing	

- ◆ This device is a Class B digital apparatus.
- ◆ Design and specifications are subject to change without prior notice.
- ◆ For the power supply and Power Consumption, refer to the label attached to the product.

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